

ABSTRACT OF THE DISCLOSURE

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a14*

A system and method for performing reliable unidirectional communication in a data network is disclosed. Unidirectional data is sent from a transmitting device to a receiving device. Prior to transmission, the data is divided into a window (401a) comprised of data bytes. A checksum value (407) is computed across data bytes comprising window (401a). Checksum value (407) is placed into an XML integrity element (402) that encapsulates window (401a) in a manner allowing a receiving device to use the contents of integrity element (402) to validate the received window (401a). Checksum value (407) is compared to a second checksum value computed across window (401a) at the receiving device. If checksum value (407) matches the second checksum value, window (401a) is validated.